

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633901

Luminaire Tested: GWS-SA2F-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-760-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

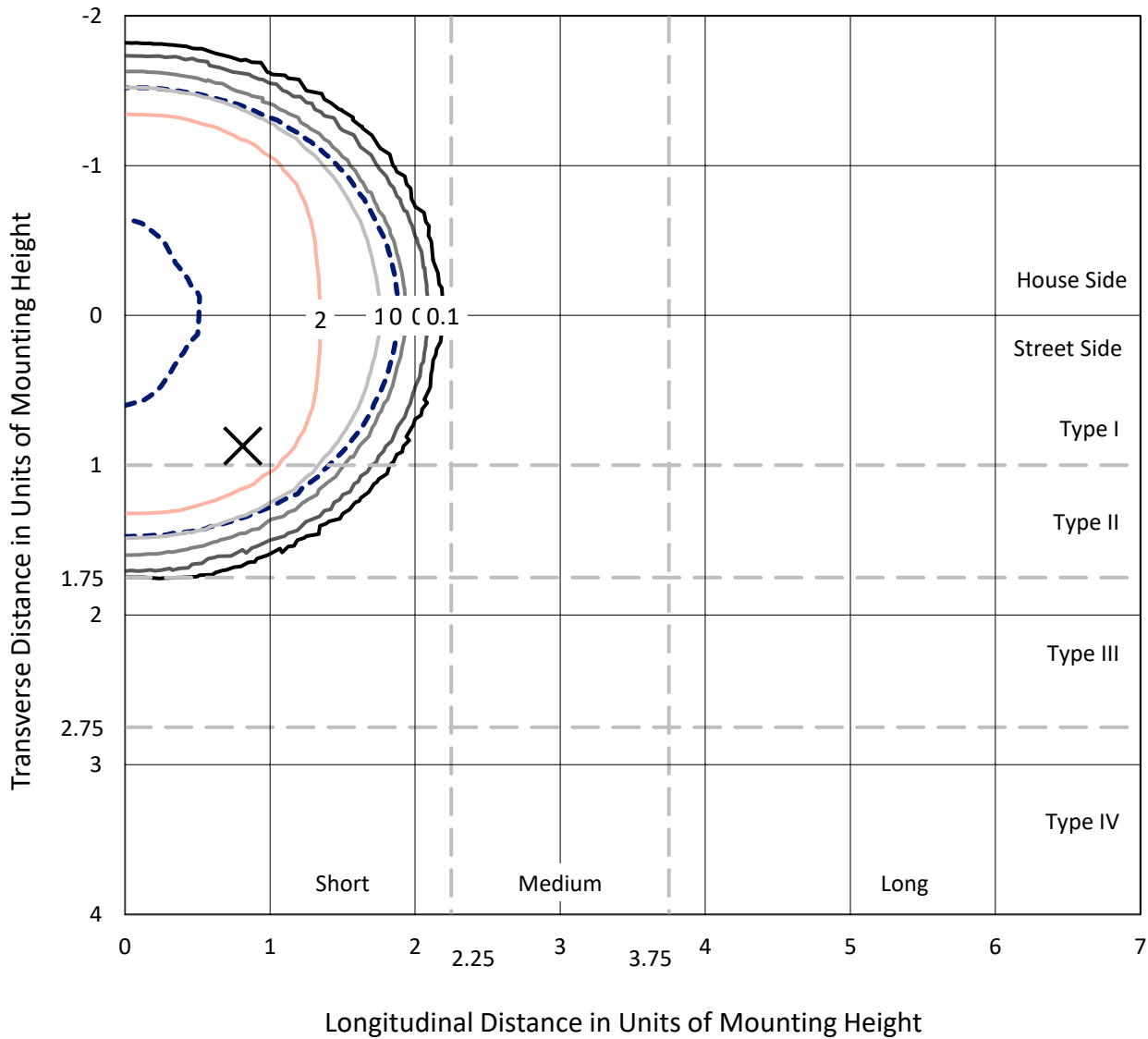
Lumens per Lamp: N/A  
Luminaire Lumens: 10607.8 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

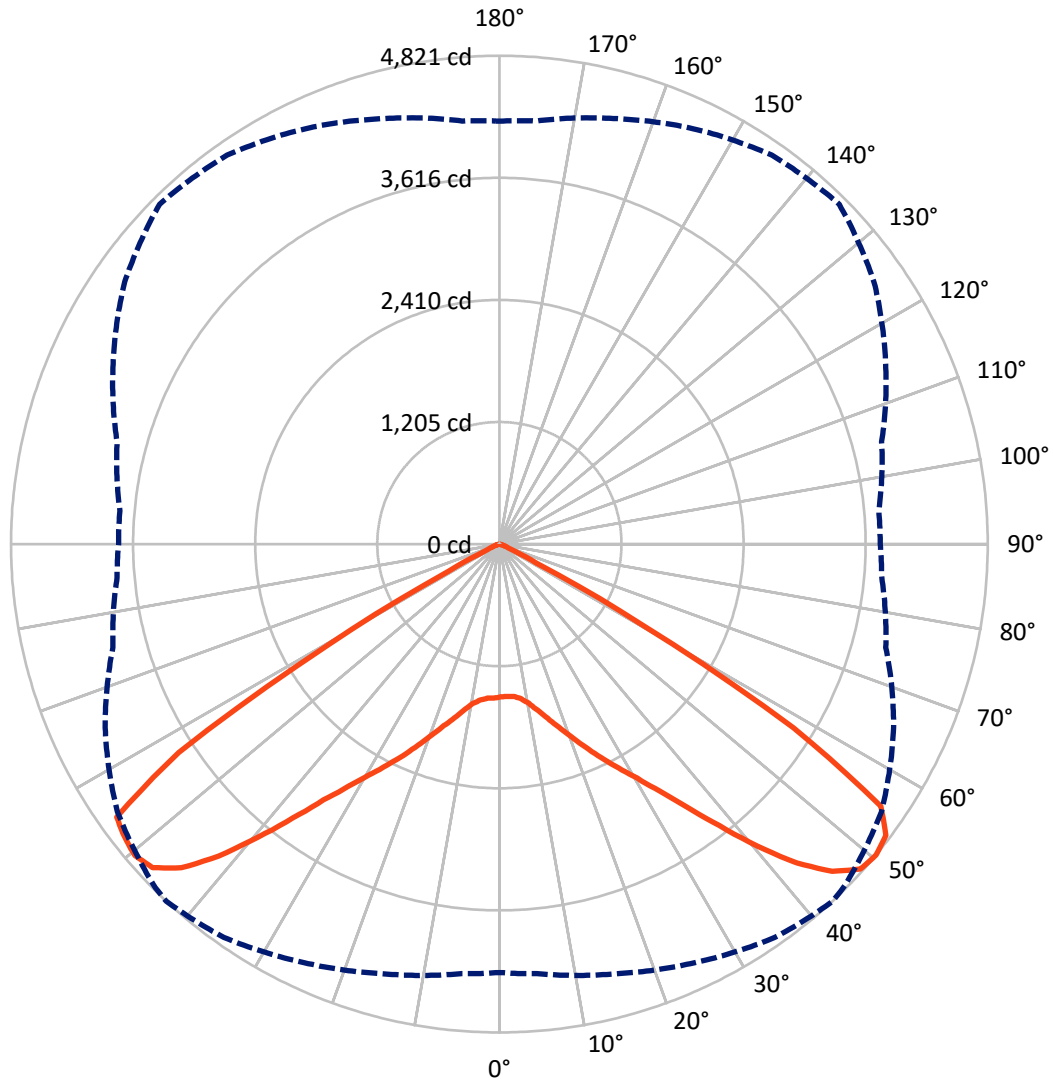
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P633901  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P633901

CATALOG NUMBER: GWS-SA2F-760-U-RW-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5303.8	0.0	5303.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5304.0	0.0	5304.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10607.8	0.0	10607.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	1.4
10°-20°	511.3	4.8
20°-30°	1034.5	9.8
30°-40°	1919.3	18.1
40°-50°	3185.9	30.0
50°-60°	3251.4	30.7
60°-70°	533.2	5.0
70°-80°	23.3	0.2
80°-90°	0.3	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10607.8	100.0
0°-180°	10607.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633901

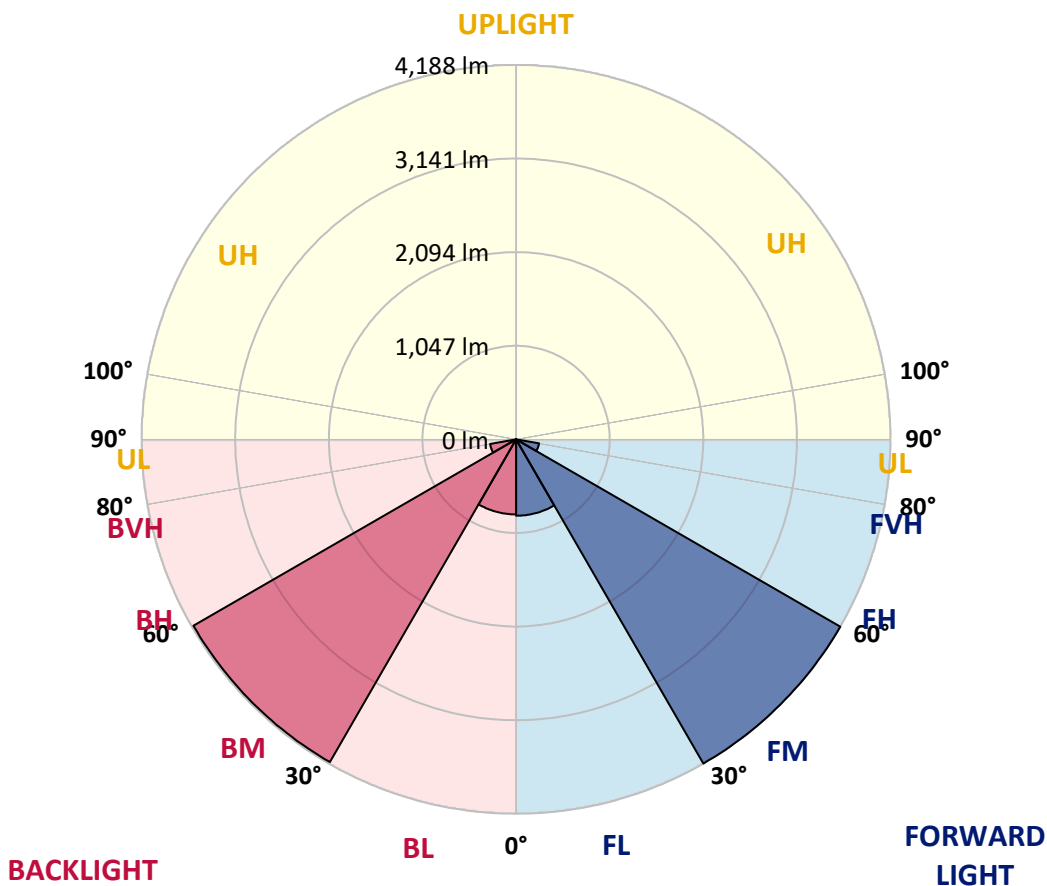
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.6	8.1			
FM (30°-60°)	4188.5	39.5			
FH (60°-80°)	260.8	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	839.8	7.9	B2/1000		
BM (30°-60°)	4168.1	39.3	B3/5000		
BH (60°-80°)	295.7	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





REPORT NUMBER: P633901

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8
2.5°	1480.6	1484.2	1488.8	1493.5	1499.4	1505.3	1508.8	1519.4	1517.0	1526.4	1526.4
5°	1464.2	1467.7	1473.6	1484.2	1497.1	1510.0	1519.4	1540.5	1552.2	1571.0	1578.0
7.5°	1472.4	1477.1	1484.2	1500.6	1520.5	1540.5	1551.0	1585.1	1608.5	1643.7	1663.7
10°	1499.4	1504.1	1515.8	1544.0	1569.8	1598.0	1610.9	1654.3	1691.8	1739.9	1768.1
12.5°	1529.9	1535.8	1559.2	1601.5	1646.1	1683.6	1701.2	1749.3	1788.0	1842.0	1886.6
15°	1561.6	1571.0	1607.3	1669.5	1732.9	1783.3	1802.1	1853.7	1892.4	1949.9	2000.4
17.5°	1635.5	1646.1	1687.1	1754.0	1840.8	1899.5	1915.9	1969.9	1999.2	2037.9	2090.7
20°	1728.2	1748.1	1798.6	1879.5	1974.6	2030.9	2042.6	2095.4	2093.1	2109.5	2155.2
22.5°	1843.2	1857.2	1912.4	2008.6	2115.4	2177.5	2204.5	2226.8	2197.5	2183.4	2212.7
25°	1962.8	1979.3	2039.1	2144.7	2264.4	2335.9	2358.2	2375.8	2328.9	2276.1	2279.6
27.5°	2117.7	2129.4	2188.1	2300.7	2420.4	2501.4	2521.3	2551.8	2489.6	2405.2	2381.7
30°	2301.9	2313.6	2375.8	2494.3	2612.8	2682.0	2712.5	2750.1	2682.0	2576.4	2549.5
32.5°	2517.8	2529.5	2609.3	2731.3	2828.7	2903.8	2933.1	2973.0	2919.0	2800.5	2770.0
35°	2775.9	2782.9	2876.8	3009.4	3112.6	3185.4	3205.3	3252.2	3192.4	3073.9	3057.5
37.5°	3075.1	3083.3	3185.4	3339.1	3444.6	3525.6	3557.3	3570.2	3497.4	3364.9	3352.0
40°	3403.6	3430.6	3530.3	3695.7	3814.2	3916.3	3944.4	3901.0	3799.0	3618.3	3594.8
42.5°	3746.2	3769.6	3881.1	4060.6	4197.9	4302.3	4303.5	4209.6	4036.0	3786.1	3750.9
45°	4031.3	4040.7	4185.0	4365.6	4534.6	4608.5	4615.5	4445.4	4183.8	3883.4	3808.4
47.5°	4227.2	4242.5	4368.0	4541.6	4728.2	4795.0	4781.0	4568.6	4254.2	3946.8	3822.4
50°	4229.5	4255.4	4391.5	4559.2	4739.9	4820.9	4800.9	4603.8	4294.1	3949.1	3788.4
52.5°	3855.3	3897.5	4119.3	4362.1	4639.0	4777.4	4782.1	4649.6	4278.8	3911.6	3757.9
55°	2908.5	2954.2	3233.5	3647.6	4182.6	4568.6	4635.5	4595.6	4261.2	3928.0	3811.9
57.5°	1539.3	1504.1	1659.0	2069.6	2741.9	3424.7	3620.6	3939.8	4065.3	3948.0	3911.6
60°	335.5	357.8	476.3	641.8	1070.0	1610.9	1802.1	2348.8	2998.8	3287.4	3496.3
62.5°	144.3	142.0	147.8	167.8	245.2	408.3	498.6	814.2	1284.7	1764.6	2089.5
65°	118.5	119.7	124.4	124.4	116.2	117.3	123.2	186.5	300.4	421.2	565.5
67.5°	89.2	90.3	98.6	100.9	95.0	84.5	83.3	70.4	73.9	92.7	96.2
70°	56.3	56.3	61.0	63.4	63.4	58.7	57.5	50.4	49.3	56.3	63.4
72.5°	30.5	30.5	32.9	34.0	32.9	31.7	31.7	30.5	29.3	34.0	43.4
75°	12.9	12.9	14.1	14.1	12.9	12.9	12.9	12.9	12.9	15.3	23.5
77.5°	2.3	3.5	4.7	3.5	2.3	2.3	2.3	3.5	3.5	4.7	7.0
80°	1.2	1.2	2.3	1.2	0.0	0.0	0.0	0.0	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633901

CATALOG NUMBER: GWS-SA2F-760-U-RW-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8
2.5°	1534.6	1521.7	1526.4	1528.7	1525.2	1522.9	1510.0	1506.4	1500.6	1491.2	1488.8
5°	1586.2	1575.7	1574.5	1567.5	1551.0	1531.1	1506.4	1495.9	1484.2	1472.4	1470.1
7.5°	1673.0	1660.1	1651.9	1628.5	1590.9	1559.2	1518.2	1495.9	1480.6	1465.4	1461.9
10°	1784.5	1769.3	1745.8	1702.4	1651.9	1606.2	1558.1	1528.7	1505.3	1484.2	1483.0
12.5°	1903.0	1886.6	1844.3	1789.2	1728.2	1686.0	1624.9	1583.9	1548.7	1517.0	1513.5
15°	2027.4	2007.4	1949.9	1884.2	1827.9	1784.5	1717.6	1651.9	1598.0	1552.2	1547.5
17.5°	2122.4	2097.8	2029.7	1980.4	1934.7	1890.1	1815.0	1728.2	1656.6	1601.5	1588.6
20°	2182.2	2158.8	2094.2	2067.3	2046.1	2014.5	1925.3	1835.0	1755.2	1687.1	1675.4
22.5°	2239.7	2211.6	2155.2	2155.2	2171.7	2158.8	2062.6	1959.3	1865.5	1786.9	1769.3
25°	2304.3	2282.0	2242.1	2274.9	2316.0	2314.8	2216.3	2087.2	1979.3	1891.3	1873.7
27.5°	2398.1	2375.8	2361.7	2423.9	2475.5	2472.0	2364.1	2224.5	2110.7	2023.8	2007.4
30°	2563.5	2542.4	2527.2	2602.3	2668.0	2643.3	2524.8	2389.9	2274.9	2176.4	2164.6
32.5°	2784.1	2761.8	2741.9	2817.0	2875.6	2843.9	2731.3	2604.6	2472.0	2375.8	2352.4
35°	3073.9	3027.0	3007.0	3096.2	3120.8	3085.6	2977.7	2866.2	2725.4	2615.2	2599.9
37.5°	3373.1	3317.9	3303.9	3381.3	3421.2	3408.3	3281.6	3165.4	3012.9	2890.9	2873.3
40°	3628.8	3578.4	3553.8	3674.6	3764.9	3773.2	3659.3	3517.4	3337.9	3211.2	3179.5
42.5°	3779.0	3735.6	3729.7	3917.5	4065.3	4170.9	4034.8	3888.1	3699.2	3556.1	3530.3
45°	3813.0	3784.9	3834.2	4080.5	4310.5	4502.9	4386.8	4231.9	4027.7	3876.4	3851.8
47.5°	3809.5	3800.1	3888.1	4165.0	4456.0	4693.0	4635.5	4460.7	4263.6	4105.2	4081.7
50°	3759.1	3760.2	3906.9	4207.3	4514.6	4744.6	4687.1	4525.2	4349.2	4193.2	4174.4
52.5°	3739.1	3732.1	3871.7	4194.3	4574.5	4721.1	4592.1	4410.2	4214.3	4021.9	3993.7
55°	3809.5	3791.9	3876.4	4183.8	4581.5	4708.2	4368.0	3973.8	3572.5	3344.9	3326.1
57.5°	3915.1	3896.3	3936.2	4106.4	4214.3	3915.1	3214.7	2578.8	2165.8	1991.0	1914.7
60°	3496.3	3483.4	3452.9	3247.5	2785.3	2101.3	1431.4	912.8	655.8	530.3	530.3
62.5°	2169.3	2151.7	1986.3	1475.9	1072.3	620.6	341.4	213.5	161.9	151.3	150.2
65°	608.9	605.4	501.0	354.3	225.3	139.6	123.2	125.5	123.2	119.7	118.5
67.5°	91.5	100.9	100.9	82.1	78.6	88.0	103.2	110.3	104.4	98.6	96.2
70°	58.7	63.4	61.0	52.8	56.3	65.7	73.9	75.1	71.6	65.7	64.5
72.5°	41.1	45.8	37.5	34.0	35.2	38.7	42.2	42.2	41.1	38.7	36.4
75°	24.6	24.6	17.6	16.4	16.4	17.6	17.6	19.9	19.9	18.8	17.6
77.5°	8.2	9.4	5.9	4.7	4.7	4.7	5.9	7.0	7.0	5.9	4.7
80°	1.2	2.3	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	1.2
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)